

1 WHAT IS CLAIMED IS:

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3 1. An anisotropically conductive sheet containing
4 conductive particles exhibiting magnetism in a state
5 oriented in a thickness-wise direction of the sheet in an
6 elastic polymeric substance, wherein the durometer hardness
7 of the elastic polymeric substance is 20 to 90, and a
8 lubricant or parting agent is coated on the surfaces of the
9 conductive particles.

1 2. The anisotropically conductive sheet according to
2 Claim 1, wherein the amount of the lubricant or parting
3 agent coated on the surfaces of the conductive particles is
4 10/Dn to 150/Dn parts by mass per 100 parts by mass of the
5 conductive particles, wherein Dn means the number average
6 diameter (μm) of the conductive particles.

1 3. The anisotropically conductive sheet according to
2 Claim 1 or 2, wherein the lubricant or parting agent coated
3 on the surfaces of the conductive particles is that
4 containing silicone oil.

1 4. The anisotropically conductive sheet according to
2 Claim 3, wherein the silicone oil contains fluorine atom(s)
3 in its molecule.

1 5. The anisotropically conductive sheet according to

2 Claim 1 or 2, wherein the lubricant or parting agent
3 applied to the surfaces of the conductive particles is a
4 fluorine-containing lubricant or parting agent.

1 6. The anisotropically conductive sheet according to
2 Claim 1 or 2, which comprises a plurality of conductive
3 path-forming parts each closely containing the conductive
4 particles and extending in the thickness-wise direction of
5 the sheet, and insulating part(s) for insulating these
6 conductive path-forming parts mutually.

1 7. The anisotropically conductive sheet according to
2 Claim 4, which comprises a plurality of conductive path-
3 forming parts each closely containing the conductive
4 particles and extending in the thickness-wise direction of
5 the sheet, and insulating part(s) for insulating these
6 conductive path-forming parts mutually.

1 8. A process for producing an anisotropically
2 conductive sheet, which comprises the steps of:
3 coating the surfaces of conductive particles
4 exhibiting magnetism with a lubricant or parting agent,
5 forming a sheet-forming material layer with the
6 conductive particles coated with the lubricant or parting
7 agent dispersed in a liquid material for the elastic
8 polymeric substance, which will become an elastic polymeric
9 substance by a curing treatment,

10 applying a magnetic field to the sheet-forming
11 material layer in the thickness-wise direction thereof, and
12 subjecting the sheet-forming material layer to the curing
13 treatment.

1 9. An adapter for inspection of circuit devices,
2 comprising a circuit board for inspection on the surface of
3 which a plurality of electrodes for inspection has been
4 formed in accordance with a pattern corresponding to
5 electrodes to be inspected of a circuit device to be
6 inspected, and the anisotropically conductive sheet
7 according to any one of Claims 1, 2 and 4 integrally
8 provided on a surface of the circuit board for inspection.

1 10. An adapter for inspection of circuit devices,
2 comprising a circuit board for inspection on the surface of
3 which a plurality of electrodes for inspection has been
4 formed in accordance with a pattern corresponding to
5 electrodes to be inspected of a circuit device to be
6 inspected, and the anisotropically conductive sheet
7 according to Claim 6 integrally provided on a surface of
8 the circuit board for inspection.

1 11. An adapter for inspection of circuit devices,
2 comprising a circuit board for inspection on the surface of
3 which a plurality of electrodes for inspection has been
4 formed in accordance with a pattern corresponding to

5 electrodes to be inspected of a circuit device to be
6 inspected, and the anisotropically conductive sheet
7 according to Claim 7 integrally provided on a surface of
8 the circuit board for inspection.

1 12. The adapter for inspection of circuit devices
2 according to Claim 9, wherein at least a part of each of
3 the electrodes for inspection in the circuit board for
4 inspection is formed of a magnetic material.

1 13. The adapter for inspection of circuit devices
2 according to Claim 10 or 11, wherein at least a part of
3 each of the electrodes for inspection in the circuit board
4 for inspection is formed of a magnetic material.

1 14. An inspection apparatus for circuit devices,
2 comprising a circuit board for inspection on the surface of
3 which a plurality of electrodes for inspection are formed
4 in accordance with a pattern corresponding to electrodes to
5 be inspected of a circuit device to be inspected, and the
6 anisotropically conductive sheet according to any one of
7 Claims 1, 2 and 4 interposed between the circuit board for
8 inspection and the circuit device.

1 15. An inspection apparatus for circuit devices,
2 comprising a circuit board for inspection on the surface of
3 which a plurality of electrodes for inspection are formed

4 in accordance with a pattern corresponding to electrodes to
5 be inspected of a circuit device to be inspected, and the
6 anisotropically conductive sheet according to Claim 6
7 interposed between the circuit board for inspection and the
8 circuit device.

1 16. An inspection apparatus for circuit devices,
2 comprising a circuit board for inspection on the surface of
3 which a plurality of electrodes for inspection are formed
4 in accordance with a pattern corresponding to electrodes to
5 be inspected of a circuit device to be inspected, and the
6 anisotropically conductive sheet according to Claim 7
7 interposed between the circuit board for inspection and the
8 circuit device.

1 17. An electronic part-packaged structure comprising
2 a circuit board and an electronic part electrically
3 connected to the circuit board through the anisotropically
4 conductive sheet according to any one of Claims 1, 2 and 4.

1 18. An electronic part-packaged structure comprising
2 a circuit board and an electronic part electrically
3 connected to the circuit board through the anisotropically
4 conductive sheet according to Claim 5.

1 19. An electronic part-packaged structure comprising
2 a circuit board and an electronic part electrically

3 connected to the circuit board through the anisotropically
4 conductive sheet according to Claim 6.

1 20. An electronic part-packaged structure comprising
2 a circuit board and an electronic part electrically
3 connected to the circuit board through the anisotropically
4 conductive sheet according to Claim 7.